Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_ Math: \_\_\_\_\_\_

**Ratios Homework 3**

Using Double Number Lines to Solve Ratio Problems

1. James recently made fruit punch for his family reunion. He made 2 gallons of punch for 16 people. His punch was a big hit and he has been asked to bring it on other occasions. Ethan made a list of the events he is attending in the next two months to which he will bring his punch. Make a double number line to figure out how many gallons of punch James will need to make for each event.

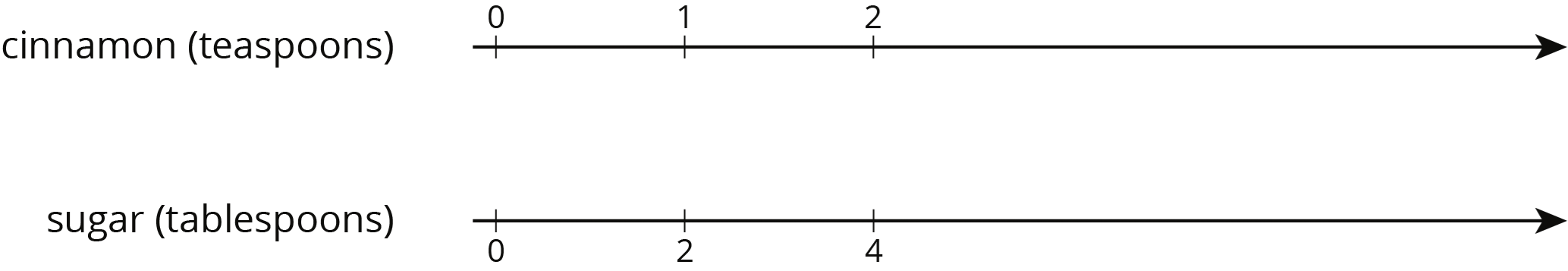
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| **Event** | **Number of People** | **Gallons of Punch** |
| Family dinner with guests |  |  |
| Ethan’s birthday party |  |  |
| Family reunion |  |  |
| 6th grade fundraiser |  |  |

*[Remember to label each number line.]*

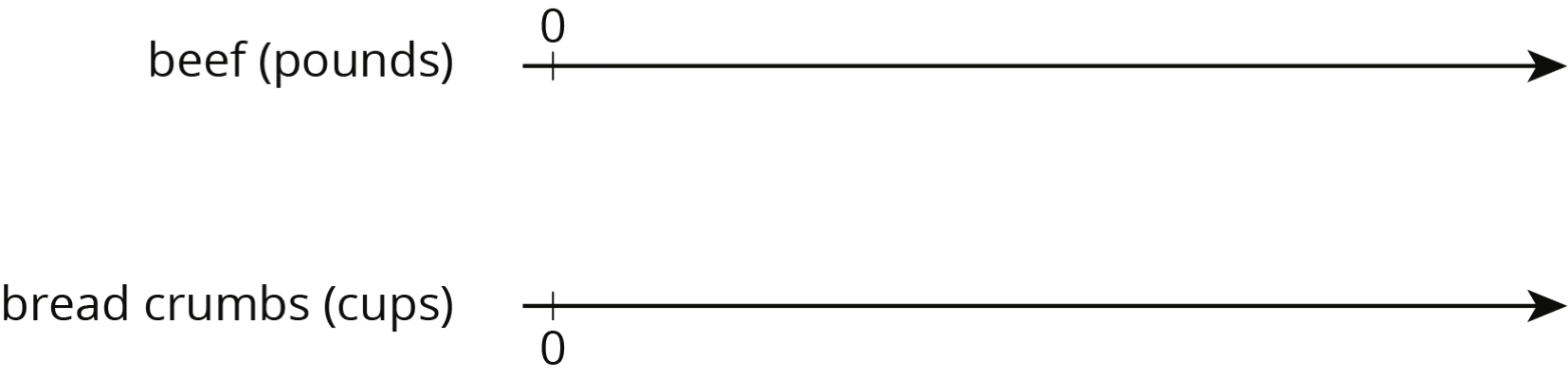
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1. A recipe for cinnamon rolls uses 2 tablespoons of sugar per teaspoon of cinnamon for the filling. Complete the double number line diagram to show the amount of cinnamon and sugar in 3, 4, and 5 batches.



1. The ratio of dimes to quarters was 5 to 8. There are a total of 48 quarters in the vending machine. How many dimes are there? Explain your reasoning in words or show it on a double number line.
2. One batch of meatloaf contains 2 pounds of beef and cup of bread crumbs. Complete the double number line diagram to show the amounts of beef and bread crumbs needed for 1, 2, 3, and 4 batches of meatloaf.



1. A recipe for tropical fruit punch says, “Combine 4 cups of pineapple juice with 5 cups of orange juice.”
2. Create a double number showing the amount of each type of juice in 1, 2, 3, 4, and 5 batches of the recipe.

1. If 12 cups of pineapple juice are used with 20 cups of orange juice, will the recipe taste the same? Explain your reasoning.
2. The recipe also calls for cup of lime juice for every 5 cups of orange juice. Add a line to your diagram to represent the amount of lime juice in different batches of tropical fruit punch.